

Claim Amendments

1. (Currently Amended) A fluorescent tanning lamp adapted for operating at currents greater than 800 milliamperes comprising:

a fluorescent tube;
an electrode placed within an end of said fluorescent tube;
an electrode support holding said electrode;
a stem holding said electrode support within said fluorescent tube; ~~and~~

a metal cup having an open end opposite said electrode and positioned to surround said electrode, said metal cup being electrically isolated from said electrode: and

means, attached to said metal cup, for dissipating heat,

whereby said metal cup shields said electrode ~~increasing the service life of the fluorescent tanning lamp.~~

2. (Currently Amended) A fluorescent tanning lamp adapted for operating at currents greater than 800 milliamperes comprising:

a fluorescent tube;
an electrode placed within said fluorescent tube;
an electrode support holding said electrode;

a stem holding said electrode support within said fluorescent tube; ~~and~~

a metal cup having an open end opposite said electrode and positioned to surround said electrode, said metal cup being held by said electrode support; and

means, attached to said metal cup, for dissipating heat,

whereby said metal cup shields said electrode ~~increasing the service life of the fluorescent tanning lamp.~~

A/ 3. (Currently Amended) A fluorescent tanning lamp as in claim 2 wherein:

said metal cup is electrically coupled to said electrode support.

4. (Currently Amended) A fluorescent tanning lamp as in claim 2 ~~further comprising~~ wherein:

said means for dissipating heat comprises a bracket, one end of said bracket attached to said metal cup and another end of said bracket attached to said electrode support.

5. (Currently Amended) A fluorescent tanning lamp adapted for operating at currents greater than 800 milliamperes for use in a tanning bed comprising:

a fluorescent tube;

an electrode placed within said fluorescent tube;
a stem attached to said florescent tube;
an electrode support held in said stem;
a lead wire connected to said electrode support;
a cup having a bottom end and an open end opposite the
bottom end, said cup positioned to substantially surround said
electrode; and

A
an L-shaped ~~a~~ cup support ~~attach~~ attached to the bottom of
said cup and said electrode support, said L-shaped cup support
having a width substantially greater than a diameter of said
electrode support and capable of conducting heat away from said
electrode and dissipating the heat, whereby said cup is
electrically and thermally coupled to said electrode support and
said lead wire,

whereby said cup shields said electrode and said L-shaped
cup support causes heat to be dissipated ~~increasing the service~~
~~life of the fluorescent tanning lamp~~.

Please **cancel** claims 6, 7, and 8.

9. (Original) A fluorescent tanning lamp for use in a
tanning bed as in claim 5 wherein:

said cup is cylindrical with a diameter and the open end is
open over substantially the entire diameter.

10. (Original) A fluorescent tanning lamp for use in combination with a tanning bed comprising:

a tube coated with phosphor having two ends;

a pair of electrodes, one of said pair of electrodes placed in each of the two ends of said tube;

a pair of electrode supports each having a diameter and holding each of said pair of electrodes;

A
a pair of stems, one each of said pair of stems attached to one of the two ends of said glass tube and holding a respective one of said pair of electrode supports;

a pair of lead wires coupled to each of said pair of electrode supports;

a pair of cups each having a bottom with a slot therein adapted to pass through a respective one of said pair of electrode supports and having an open end opposing the slot, each one of said pair of cups positioned to surround a respective one of said pair of electrodes;

a pair of L-shaped cup supports having a width substantially greater than the diameter of each of said pair of electrode supports, one each of said pair of cup supports attached to the bottom of a respective one of said pair of cups and one of said pair of electrode supports, whereby each of said pair of cups is

held in position encircling one of said pair of electrodes and is electrically and thermally coupled to one of said pair of electrode supports; and

an emissive material placed on each of said pair of electrodes,

whereby said pair of cups act as an electrode shield and heat sink increasing service life of the fluorescent tanning lamp.

11. (New) A fluorescent tanning lamp adapted for operating at currents greater than 800 milliamperes as in claim 1 wherein:

said means for dissipating heat comprises an L-shaped bracket having a width substantially greater than a diameter of said electrode support,

whereby heat is conducted away from said electrode and additional surface area is provided to dissipate the heat.

12. (New) A fluorescent tanning lamp adapted for operating at currents greater than 800 milliamperes as in claim 2 wherein:

said means for dissipating heat comprises an L-shaped bracket having a width substantially greater than a diameter of said electrode support,

whereby heat is conducted away from said electrode and additional surface area is provided to dissipate the heat.